

# [Cross Flow Prevention System and Valve

## Abstract

In general, a system and valve is provided to prevent the cross flow between formations during the shut-in period of a well intersecting at least two formations, with flow from at least one of the formations being controlled by a multi-position valve. In one embodiment, the system comprises a cross-flow prevention valve that automatically closes and then opens during each cycle of the multi-position valve. In another embodiment, the cross-flow prevention valve is activated by the same control line used to activate the multi-position valve.